

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P247374

Luminaire Tested: **LSR8B80D010 EC8B80927 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80927 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7023.4 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

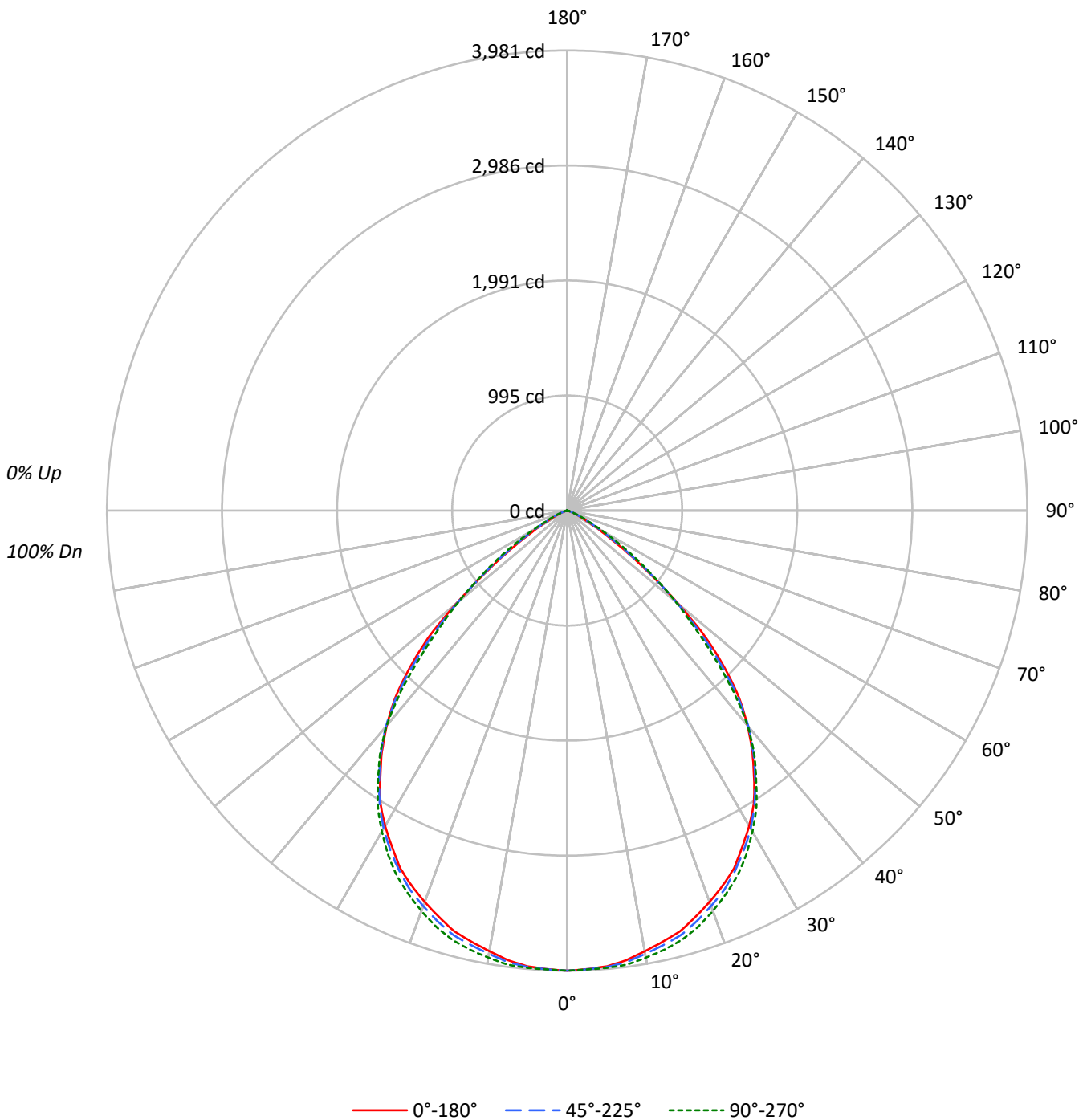
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20							
RC	80				70				50				30				10				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100		
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91	91	91	91	91		
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81	81	81	81	81		
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72	72	72	72	72		
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64	64	64	64	64		
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58	58	58	58	58		
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52	52	52	52	52		
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47	47	47	47	47		
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43	43	43	43	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39	39	39	39	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36	36	36	36	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.1	5.4
10°-20°	1070.3	15.2
20°-30°	1581.3	22.5
30°-40°	1767.0	25.2
40°-50°	1426.5	20.3
50°-60°	634.5	9.0
60°-70°	142.9	2.0
70°-80°	22.1	0.3
80°-90°	2.6	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3027.8	43.1
0°-40°	4794.7	68.3
0°-60°	6855.7	97.6
0°-90°	7023.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7023.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3981	3981	3981	3981	3981	
5°	3957	3957	3964	3964	3971	375
15°	3769	3772	3802	3830	3843	1060
25°	3415	3415	3437	3466	3485	1566
35°	2820	2818	2837	2840	2852	1758
45°	1932	1918	1882	1815	1806	1461
55°	642	652	681	716	737	604
65°	106	119	128	139	146	123
75°	14	20	20	20	24	18
85°	2	2	4	9	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3980.9	3980.9	3980.9	3980.9	3980.9
2.5°	3970.8	3968.4	3972.4	3970.0	3974.0
5°	3957.4	3956.6	3963.7	3964.5	3970.8
7.5°	3923.0	3923.8	3938.6	3949.6	3962.1
10°	3870.4	3873.6	3893.2	3917.5	3927.7
12.5°	3820.4	3824.3	3849.3	3883.0	3890.9
15°	3769.4	3771.8	3802.4	3830.5	3843.1
17.5°	3686.4	3702.0	3725.6	3757.7	3774.2
20°	3603.4	3614.4	3641.0	3676.3	3685.6
22.5°	3512.5	3524.3	3551.0	3579.9	3590.1
25°	3415.4	3415.4	3437.3	3465.6	3485.1
27.5°	3279.8	3296.4	3312.0	3337.1	3356.7
30°	3150.6	3156.9	3175.6	3196.0	3205.5
32.5°	3007.2	3008.0	3016.7	3039.4	3048.0
35°	2820.0	2818.5	2837.2	2840.4	2852.2
37.5°	2632.8	2640.6	2647.7	2658.7	2659.5
40°	2428.3	2432.2	2440.1	2428.3	2433.8
42.5°	2205.9	2200.4	2185.5	2150.3	2135.4
45°	1932.5	1917.7	1881.6	1815.0	1806.4
47.5°	1630.9	1594.1	1550.2	1500.9	1491.5
50°	1254.1	1257.3	1235.4	1218.9	1220.4
52.5°	914.2	925.1	930.6	946.2	954.9
55°	642.4	651.7	680.7	715.9	737.1
57.5°	415.9	434.0	471.6	511.5	526.4
60°	265.5	277.3	311.0	340.0	359.6
62.5°	173.9	177.9	196.6	223.2	224.0
65°	105.8	119.0	127.7	138.6	146.5
67.5°	69.0	69.0	76.7	87.0	89.3
70°	39.9	40.7	44.7	48.6	51.0
72.5°	21.9	24.3	26.7	30.6	34.4
75°	14.1	19.6	20.4	19.6	23.5
77.5°	9.5	9.5	7.9	13.3	14.1
80°	7.9	5.5	7.1	10.2	10.9
82.5°	0.0	0.8	0.8	1.6	0.0
85°	1.6	2.4	3.9	8.7	2.4
87.5°	0.0	2.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)